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AMENDMENTS TO THE CLAIMS

Kindly amend the claims as follows:

1 – 12 (cancelled)

13. (currently amended) A method for topology discovery in an ATM network, the method comprising:

configuring a plurality of unmatched but active ports of a plurality of ATM devices with a VPI/VCI known not to exist in said network;

finding a path in a topology graph of said network from a transmitting source within said network to a selected one of said ATM devices having a matched port and a configured unmatched port;

establishing a permanent virtual circuit (PVC) between ~~[[a]] said transmission source within said network and an unmatched transmitting port, being said configured unmatched port of said selected ATM device, via said matched port a selected one of said ATM devices along a known said path, wherein said selected ATM device has at least one target active port for which a link to any other of said ports is not known to exist in said network;~~

~~transmitting a cell from said transmission source to said selected ATM device along said path and via said target port via said PVC;~~

detecting the arrival of said cell at any other of said configured unmatched ports; and

where said cell ~~arrives at~~ is received by only one other of said configured unmatched ports, ~~maintaining~~ creating in ~~[[a]]~~ said topology graph a link between said ~~target unmatched transmitting port and said one other of said ports receiving port.~~

14. (cancelled)